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CHICKEN MEAT PRODUCTION TESTS

Report for the period
1959-60



Growth Through Agricultural Progress

Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE

CHICKEN MEAT PRODUCTION TESTS AND SUPERVISORS

~~Arkansas~~ Meat Performance Broiler Test, Fayetteville
(Supervisor: L. T. Lankford, Box 391, Little Rock)

California Official Random Sample Chicken Meat Production Test
(Superintendent: Emery A. Johnson, Route 3, Box 1145, Modesto)

Maine Production and Broiler Test, Monmouth
(Supervisor: Francis G. Buzzell, Maine Department of Agriculture, Augusta)

New Hampshire Broiler Test
(Supervisor: W. C. Skoglund, University of New Hampshire, Durham)

Texas Random Sample Meat Production Test
(Supervisor: Bill H. Doran, Texas A. & M. College, College Station)

FOREWORD

This report includes the performance records of meat production test entries representing 59 matings. Forty-four of these matings were composed of commercially available stocks while the remaining 15 included experimental stocks. The designations of the stocks included in these matings and the tests in which they were represented are tabulated on page 4 of this report.

Variations in the procedures followed by the different tests make it difficult to present the results so that the records reported in one test may be compared directly with those from another test. Some of the variations, which should be considered in the comparison of results are described in the following résumé of test procedures.

RÉSUMÉ OF OPERATING PROCEDURES AT EACH TEST

Arkansas Meat Performance Broiler Test

The Arkansas testing facilities are utilized by conducting four separate broiler tests each year in addition to the Reproduction Test. The Reproduction Test was started when a random sample of day-old-male and female parent stock was placed in the brooder house. The birds were range reared and put into the laying quarters at five months of age. During the laying year, two groups of broiler chicks were hatched from eggs produced by the entries in the Reproduction Test. These broiler chicks were grown out and the data for the two lots were averaged and are presented, along with the performance of their parents, in the Arkansas Random Sample Meat Performance and Reproduction Tests table.

The broiler growing facilities were utilized the balance of the year by conducting two additional Meat Performance Tests. These tests differed from the above broiler tests in that the eggs to produce these broilers were sampled from the entrants' flocks. The data obtained from these two tests are presented in the tables entitled "Arkansas Meat Performance Test No. 17" and "Arkansas Meat Performance Test No. 18".

California Official Random Sample Chicken Meat Production Test

The California Official Random Sample Chicken Meat Production Test was started when the sample taker randomly selected 720 hatching eggs from the entrant's egg room or hatchery. The eggs were divided into four lots of 180 each and incubated in four different incubators. At hatching time, the chicks were sexed and 225 males and 225 females were selected at random to constitute the chicks on test. The chicks were brooded and housed in concrete floor pens, 8' X 14' in size. Three replicate cockerel groups and three replicate pullet groups (75 birds per group or 450 birds per entry) were randomly located within the houses at the testing project. The chicks were vaccinated against Newcastle disease (water method) at five days of age, infectious bronchitis (water method) at 2 1/2 weeks and Newcastle disease (intramuscular) at five weeks. Beginning at 5 1/2 weeks of age the birds received a high level antibiotic in the feed for five days to combat a mild respiratory disease outbreak. At the end of the 8-week test period, the entries were weighed and processed.

Maine Production and Broiler Test

The Maine Production and Broiler Test consists of two phases; the egg production, fertility and hatchability of the parent stock and the meat producing ability of the progeny. An entry of the parent stock consisted of 50 pullets and 5 cockerels. Enough eggs to produce 90 broiler chicks (45 of each sex) were sampled four times during the year from each entry of parent stock. Chicks from three of these hatches were grown to 8 weeks of age and chicks from the fourth hatch were grown to 12 weeks of age. The data contained in this publication cover the records made by the parent stock and the average performance of the broilers in the three 8-week trials.

New Hampshire Broiler Test

The New Hampshire Broiler Test data reported consists of the average performance of the stocks in two separate trials. Trial I ended October 20, 1960 and Trial II ended January 17, 1961. Each trial had duplicate pens of 140 birds each, making a total of 560 birds represented in four pens. The broilers were weighed at 8 weeks of age and the weights and feed conversion for this period are reported. At 9 weeks of age, they were again weighed and then processed. Data on weights, feed conversion, mortality and market grade were recorded and are also reported in this publication. It will be noted that eight experimental stocks were entered in this test. These stocks are not for sale commercially at the present time.

Texas Random Sample Meat Production Test

The Texas Random Sample Broiler Test was started November 22, 1960 when the chicks were hatched and ended January 23, 1961 when the broilers were processed. The two cases of hatching eggs from which the chicks were hatched were selected at random from the entrant's supply flocks by disinterested persons. All entries were hatched in one incubator. At hatching time, 400 chicks, (200 of each sex) from each entry were randomly selected and divided into four lots of 100 chicks each (50 of each sex). Two lots of each entry were then placed in each of two brooder houses, allowing one square foot per bird. All chicks were vaccinated for Newcastle at four days and four weeks and for Bronchitis at 14 days, using the water method. They were debeaked at 10 days of age. The broilers were bulk weighed at 6 to 9 weeks of age. Also at 9 weeks of age, 13 males and 13 females from each pen were individually weighed to determine body weight by sex. The birds were then processed after the 9 week weights were taken.

* * * * *

Information in this report was compiled by the Poultry Research Branch, Animal Husbandry Research Division, Agricultural Research Service, from data supplied by the Test Supervisors and the Council of American Official Poultry Tests. The publication of this Report should not be construed as implying approval or endorsement by the U. S. Department of Agriculture of any of the stocks tested.

The records of previous tests are contained in Reports No. 16 through 21, published by the Council of American Official Poultry Tests, Dean R. Marble, Secretary, Poultry Department, Cornell University, Ithaca, New York.

STOCKS ENTERED IN 1959-60 MEAT PRODUCTION TESTS

STOCKS	TESTS ENTERED						
	Arkansas Meat & Reproduction Test	Arkansas Meat Test No. 17	Arkansas Meat Test No. 18	Calif. Meat Test	Maine Prod. & Broiler Test	New Hamp. Broiler Test	Texas Broiler Test
Arbee X Cobb				X		X	
Arbor Acre Experimental (Exp.)	X		X			X	
Athens-Canadian Random Breds (Exp.)		X				X	
Cobb's Experimental Cross (Exp.)		X	X		X	X	
Cobb's Strain Cross					X	X	X
Cobb's WPR				X			
Coll's WPR						X	
Cornish X WPR (Exp.)				X		X	
Eagle W. X Cobb WPR				X			
Ellis X Nichols 108					X		
Ellis #4 X Nichols 108		X		X			
Experimental (Calif.)							
Indian River Cross						X	
Indian River X Cross (Exp.)						X	
Indian River X D (Exp.)						X	
Kimber K-44				X		X	
Lambright C-X (Exp.)		X					
Lambright CXX		X	X				
Lambright M-44		X				X	
Lambright X-B (Exp.)						X	X
Ledbrest X Arbor Acres WPR	X						
Ledbrest X Cobb WPR	X	X	X	X			X
Ledbrest X Pilch WPR	X	X	X				
Ledbrest X Thompson WPR		X	X				
Nichols #909B X Nichols 108					X		X
Ottawa Random Bred (Exp.)		X					
Penobscot M #1 X #11					X		
Penobscot M #1 X #13					X		
Peterson X Arbor Acre		X	X	X			
Peterson X Arbor Acre WPR					X		X
Peterson X Arbor Acre Exp. (Exp.)	X						
Peterson X Cobb WPR	X	X	X				
Peterson X Hubbard 43							
Peterson X Meator				X			
Peterson X Nichols 108	X	X			X		
Peterson X Pilch WPR					X		
Peterson X Thompson Exp. (Exp.)	X						
Peterson X Thompson NT 777	X						
Peterson X WPR	X						XX
Pilch Experimental Cross (Exp.)						X	X
Pilch WPR					X		
Royal C X Nichols 108			X	X			
Thompson WPR				X			
University of Arkansas (Exp.)			X				
Vantress X Arbor Acre Line 4					X		
Vantress X Arbor Acre WPR	X			X		XX	
Vantress X Arbor Acre 50				X			
Vantress X Arbor Acre #5003					X		
Vantress X Cobb WPR	X				X		
Vantress X Feather River NH				X			
Vantress X Hubbard							X
Vantress X Hubbard #39	X				X	X	
Vantress X Nichols 108	X	X	X	X	X	X	
Vantress X Pilch WPR	X				X		X
White Mt. X Arbor Acre WPR					X		
White Mt. X Cobb WPR					X		
White Mt. X Hubbard 39					X		
White Mt. X Hubbard 43					X		
White Mt., New, (Exp.)							X

ARKANSAS RANDOM SAMPLE MEAT PERFORMANCE AND REPRODUCTION TESTS 1959-60

ENTRANT	BREEDS	ADULT BIRDS						PROGENY - 8 WEEKS*						% Car- cass Yield	Feed Cost per Lb. Live Brlr. (cents)**
		% Prod. per Housed	Lbs. Feed per Doz. Eggs	% Via- bility	% Fer- tility	% Hatch all Eggs	% Via- bility to 8 Wks.	Feed Conv. Lbs. Ch. per 100# Feed	Live Wt. 8 Wks.	C	P	C	P		
COMMERCIAL ENTRIES:															
Jeff D. Brown & Co., Inc. Springdale, Ark.	Ledbrest X Arbor Acre WPR	45.4	8.2	93.0	83.8	71.3	97.8	48.37	3.40	2.69	68.60	68.14	3.51	2.85	11.95
Tyson Feed & Hatchery Springdale, Ark.	Vantress X Arbor Acre WPR	44.9	8.5	94.0	79.3	63.2	97.8	48.91	3.67	2.96	68.40	68.02	3.53	2.88	12.10
Cobb's Pedigreed Chicks, Concord, Mass.	Vantress X Cobb's WPR	46.9	8.2	93.0	80.9	68.6	97.4	48.59	3.53	2.88	68.02	67.58	3.53	2.81	11.86
Jeff D. Brown & Co., Inc. Springdale, Ark.	Ledbrest X Cobb's WPR	46.9	8.4	97.0	78.9	65.7	98.8	48.81	3.49	2.81	67.58	67.00	3.49	2.81	11.99
Hubbard Farms, Inc., Walpole, N. H.	Vantress X Hub. No. 39	50.7	7.7	87.0	87.8	69.8	97.8	48.38	3.37	2.67	68.51	68.02	3.49	2.81	11.91
Hubbard Farms, Inc., Walpole, N. H.	Peterson X Hub. No. 43	53.6	6.8	85.0	77.6	61.4	97.0	48.44	3.37	2.67	68.51	68.02	3.49	2.81	11.92
Nichols Poultry Farms, Exeter, N. H.	Peterson X Nichols No. 108	49.0	8.1	93.0	87.6	73.6	97.9	48.48	3.49	2.81	69.33	68.83	3.49	2.81	11.83
Nichols Poultry Farms, Exeter, N. H.	Vantress X Nichols No. 108	48.4	8.2	91.0	78.7	68.0	98.8	47.94	3.37	2.77	67.10	66.67	3.49	2.81	12.16
Jeff D. Brown & Co., Inc., Springdale, Ark.	Ledbrest X Pilch WR	45.4	7.9	91.0	79.0	65.6	99.5	48.67	3.49	2.83	67.23	66.77	3.49	2.81	11.98
Pilch Poultry Farms, Hazardville, Conn.	Vantress X Pilch WR	41.4	8.8	94.0	70.0	62.6	99.0	49.03	3.58	2.90	67.18	66.71	3.58	2.90	12.18
A. W. Thompson Breeding Farm, Hoschton, Ga.	Peterson X Thompson NT-777	50.6	7.3	86.0	76.5	73.1	97.8	48.99	3.44	2.74	69.45	68.99	3.44	2.74	11.63
Thompson Hatchery & Br. Farm, Pottsville, Ark.	Thompson WPR	44.7	8.0	90.0	75.7	66.5	96.6	47.37	3.47	2.77	68.44	67.98	3.47	2.77	12.33
OVERALL AVERAGE		47.3	8.0	91.1	79.7	67.5	98.0	48.45	3.48	2.80	68.03	67.58	3.48	2.80	11.99
EXPERIMENTAL ENTRIES:															
Peterson Breeding Farm Decatur, Ark.	Peterson X Arbor Acre Exp.	43.0	8.5	90.0	80.7	65.7	98.3	48.36	3.52	2.78	69.49	68.99	3.52	2.78	12.15
A. W. Thompson Breeding Farm, Hoschton, Ga.	Peterson X Thompson Exp.	48.6	7.6	93.0	87.1	71.9	99.4	49.58	3.53	2.83	68.60	68.00	3.53	2.83	11.58
University of Arkansas Fayetteville, Ark.	Athens-Canadian Random-bred	---	---	---	---	---	98.6	44.63	2.58	2.11	67.85	67.33	2.58	2.11	---

* Average of two groups of progeny hatched on January 6 and June 7.

** Includes feed cost to produce baby chicks.

ARKANSAS MEAT PERFORMANCE TEST - No. 17
August 15, 1960 - October 5, 1960

ENTRANT	BREEDS	Viability to 7 Wks. of Age	Lbs. Chicken per 100# Feed	Live Weight at 7 Weeks			Carcass Yield	% Grade A Carcass	Finish
				Male	Female	Ave.			
COMMERCIAL ENTRIES:									
Brown's Ledbrest, Inc., Springdale, Ark.	Ledbrest X Cobb WPR	98.0	51.05	2.83	2.30	2.57	67.87	88.00	88.00
Brown's Ledbrest, Inc., Springdale, Ark.	Ledbrest X Pilch WPR	98.8	50.72	2.58	2.14	2.36	68.11	90.00	90.00
Brown's Ledbrest, Inc., Springdale, Ark.	Ledbrest X Thompson WPR	98.4	50.30	2.85	2.33	2.59	73.49	95.00	95.00
Cobb's Pedigreed Chicks, Concord, Mass.	Cobb's Strain Cross	99.2	50.74	3.00	2.44	2.72	76.79	93.00	93.00
Lambright Hatchery, Inc., LaGrange, Ind.	Lambright M-44	97.2	50.21	2.55	2.09	2.32	68.67	83.00	83.00
6 Nichols Poultry Farms, Brunswick, Maine	Ellis #4 X Nichols 108	98.8	49.83	2.67	2.16	2.42	66.54	87.00	87.00
Nichols Poultry Farms, Brunswick, Maine	Vantress X Nichols 108	96.8	50.59	2.75	2.27	2.51	67.50	86.00	86.00
Peterson, Decatur, Ark., & Arbor Acres, Conn.	Peterson X Arbor Acre	95.6	51.62	2.81	2.31	2.56	68.81	93.00	93.00
Peterson, Decatur, Ark., & Cobb's, Concord, Mass.	Peterson X Cobb WPR	98.0	50.81	2.89	2.35	2.62	67.11	94.00	94.00
Peterson, Decatur, Ark., & Nichols, Brunswick, Maine	Peterson X Nichols 108	97.6	51.05	2.65	2.16	2.41	68.14	85.00	85.00
Thompson Hatchery & Br. Farm, Pottsville; Ark.	Thompson WPR	98.0	50.64	2.96	2.34	2.65	66.29	88.00	88.00
AVERAGE FOR COMMERCIAL ENTRIES:									
EXPERIMENTAL ENTRIES:									
Lambright Hatchery, Inc., LaGrange, Ind.	Lambright C-X	96.4	51.06	2.58	2.08	2.33	68.36	86.00	86.00
University of Arkansas Fayetteville, Ark.	Ottawa Random- breds	93.7	46.51	1.83	1.55	1.69	68.32	45.00	45.00
AVERAGE FOR EXPERIMENTAL ENTRIES:									
95.1	48.79	2.21	1.82	2.01	68.34	65.00	65.00		

ARKANSAS MEAT PERFORMANCE TEST - No. 18
October 19, 1960 - December 7, 1960

ENTRANT	BREEDS	Viability to 7 Wks. of Age	Lbs. Chicken per 100# Feed	Live Weight at 7 Weeks			Carcass Yield	% Grade A Carcass
				Male	Female	Ave.		
COMMERCIAL ENTRIES:								
Peterson, Decatur, Ark., & Arbor Acres, Conn.	Peterson X Arbor Acre Cobb Strain Cross	98.4	54.49	2.88	2.35	2.62	68.70	100.00
Cobb's Pedigreed Chicks, Concord, Mass.	Ledbrest X Cobb WPR	97.2	53.24	3.26	2.61	2.94	66.17	100.00
Brown's Ledbrest, Inc., Springdale, Ark.	Peterson X Cobb WPR	98.0	54.03	3.04	2.45	2.75	67.42	100.00
Peterson, Decatur, Ark., & Cobb's, Concord, Mass.	Lambright CXX	94.1	54.97	3.17	2.57	2.87	67.49	100.00
Lambright Hatchery, Inc., LaGrange, Ind.	Vantress X Nichols 108	96.4	54.48	2.77	2.25	2.51	68.76	100.00
Nichols Poultry Farms, Brunswick, Maine	Thompson WPR	98.4	51.95	2.93	2.36	2.64	66.26	100.00
Thompson Hatchery & Br. Farm, Pottsville, Ark.	Ledbrest X	97.2	52.62	3.15	2.57	2.86	65.64	100.00
Brown's Ledbrest, Inc., Springdale, Ark.	Thompson WPR	97.1	53.66	3.05	2.46	2.75	67.35	100.00
AVERAGE FOR COMMERCIAL ENTRIES:								
EXPERIMENTAL ENTRIES:								
University of Arkansas Fayetteville, Ark.	Athens--Canadian Random-breds	98.8	51.12	2.15	1.72	1.94	67.06	100.00
University of Arkansas * Fayetteville, Ark.	U of A * Experimental	98.4	54.80	2.68	2.26	2.47	67.21	100.00
AVERAGE FOR EXPERIMENTAL ENTRIES:								

* Only one pen in this entry.

TWELFTH CALIFORNIA OFFICIAL RANDOM SAMPLE CHICKEN MEAT PRODUCTION TEST

ENTRANT	BREEDS	% Livability		Live Weight (Lbs.)		Feed Conv.		Calculated Feed Conv.		I.O. F. C. Per 100 Chicks Started
		No. Chicks at 1 Week	1 Week thru 8 Weeks	Cock.	Pull.	C & P	thru 8 Weeks	Live Wgt.*		
Arbee Poultry Farm & Hatchery, Cleveland, Ohio	Arbee X Cobb	443	98.6	3.85	3.10	3.48	2.23	2.20	\$27.88	
Cobb's Pedigreed Chicks, Concord, Mass.	White Rock	446	98.9	4.02	3.23	3.62	2.26	2.18	27.73	
Hubbard Farms, Inc., Walpole, N. H.	White Mountain X Hubbard 39	442	98.0	3.83	3.12	3.48	2.23	2.19	27.50	
Brown's Ledbrest, Inc., Springdale, Ark.	Ledbrest X Cobb WPR	297	99.3	3.89	3.08	3.48	2.34	2.32	27.32	
Pilch's Poultry Br. Farm, Hazardville, Conn.	White Rock	409	98.3	3.66	2.91	3.28	2.23	2.23	27.19	
Bundesen Bros. Hatchery, Petaluma, Calif.	Eagle White X Cobb White Rock	448	99.1	3.75	3.04	3.40	2.25	2.23	27.05	
Nichols Poultry Farm, Inc., Brunswick, Maine	Vantress C X Nichols 108	448	98.9	3.66	3.02	3.34	2.32	2.30	26.48	
Arbor Acres Farm, Glastonbury, Conn.	Vantress C X AA 50	450	98.4	3.61	2.95	3.28	2.27	2.28	26.48	
Arbor Acres Farm, Glastonbury, Conn.	Vantress C X White Rock	445	97.8	3.60	2.86	3.23	2.28	2.30	26.26	
Feather River Hatchery, Marysville, Calif.	Vantress C X New Hampshire Royal C X	446	98.9	3.63	3.01	3.32	2.32	2.31	26.06	
Bundesen Bros. Hatchery, Petaluma, Calif.	Royal C X Nichols 108	450	99.4	3.47	2.82	3.14	2.32	2.36	25.87	
Lambright Hatchery, Inc., LaGrange, Ind.	Peterson X Meateor Peterson Br. Farm, Inc., Decatur, Ark.	448	99.6	3.45	2.81	3.13	2.28	2.31	25.86	
Kimber Farms, Inc., Fremont, Calif.	Peterson X Arbor Acres Kimber K-44	446	96.9	3.54	2.86	3.20	2.27	2.29	25.06	
Experimental	-----	449	98.0	3.50	2.82	3.16	2.27	2.29	24.22	
	AVERAGES	434	98.6	3.66	2.96	3.31	2.28	2.28	26.50	

* Calculated Feed Conversion at 2.96 Lbs. for pullets and 3.66 Lbs. for cockerels. (Test average live weight).

Prices -- Eviscerated Weight: Fryer--Grade A--23.5¢; B & C--20.5¢

Broiler--Grade A--25.8¢; B & C--22.8¢

Feed: Pellets--\$4.46

Note-- Each entry is divided into six pens--Three replicate pullet pens and three replicate cockerel pens.

1960 NEW HAMPSHIRE BROILER TEST
 UNIVERSITY OF NEW HAMPSHIRE
 DEPARTMENT OF POULTRY SCIENCE
 DURHAM, NEW HAMPSHIRE

COMBINED SUMMARY FOR TEST II - AVERAGE OF TRIAL I AND TRIAL II - JANUARY 20, 1961*

ENTRANT	BREEDS	9 Week Weights		8 Week Average		Feed Conversion		Mortality	% Grade A
		Male	Female	Ave.	Weight	8 Wks.	9 Wks.		
COMMERCIAL ENTRIES:									
Kimber, Inc.	Kimber K44	3.71	2.86	3.29	2.89	2.13	2.31	2.16	2.3
Nichols, Inc.	Vantress X	4.03	3.22	3.63	3.19	2.16	2.34	2.04	1.1
Nichols 108									81.9
White Rock	White Rock	3.59	2.80	3.19	2.74	2.17	2.32	2.26	1.4
Arbee Poultry Farm	Arbee X Cobb	4.18	3.27	3.73	3.28	2.10	2.28	1.95	2.2
WPR									90.2
Peterson Sales, Inc.	Peterson X W PR	4.03	3.21	3.62	3.16	2.09	2.26	2.02	1.6
M. 44	M. 44	3.67	2.94	3.28	2.92	2.14	2.32	2.18	1.9
Indian River Hatchery	Indian River X	4.11	3.25	3.68	3.26	2.12	2.30	1.97	1.7
Cobb's Pedigreed Chicks	WPR Strain X	4.45	3.37	3.92	3.44	2.14	2.31	1.94	0.5
Riddle's Spring Poultry	Peterson X W PR	3.84	2.98	3.41	2.96	2.10	2.29	2.12	0.9
Hubbard Farms, Inc.	Vantress X	4.03	3.20	3.62	3.16	2.12	2.28	2.05	3.0
Hubbard 39									92.3
AVERAGE FOR COMMERCIAL ENTRIES:		3.96	3.11	3.54	3.10	2.13	2.30	2.07	1.7
EXPERIMENTAL ENTRIES:**									
Arbor Acres, Inc.	Arbor Acre Exp.	4.00	3.15	3.58	3.15	2.11	2.30	2.02	1.4
Colls Poultry Farm	Cornish X WPR	3.67	2.90	3.29	2.89	2.19	2.36	2.22	0.9
Indian River Hatchery	Indian River X C	3.97	3.16	3.57	3.11	2.15	2.33	2.10	2.8
Cobb's Pedigreed Chicks	Exp. Cross	4.22	3.30	3.76	3.34	2.13	2.33	1.92	90.0
Hubbard Farms, Inc.	New White Mts.	4.54	3.55	4.05	3.62	2.09	2.23	1.85	2.3
Pilch's	Exp. Cross	4.30	3.31	3.80	3.37	2.14	2.33	1.97	2.4
Indian River Hatchery	Indian River X D	3.97	3.10	3.54	3.10	2.14	2.32	2.06	86.2
Lambright Hatchery	No. X-B	3.69	2.90	3.30	2.90	2.11	2.31	2.18	1.2
AVERAGE FOR EXPERIMENTAL ENTRIES:		4.05	3.17	3.61	3.19	2.13	2.31	2.04	84.8
AVERAGE FOR ALL ENTRIES:		4.00	3.14	3.57	3.14	2.13	2.31	2.06	89.9
AVERAGE FOR ALL ENTRIES:									91.6

* This is the average of duplicate pens of 140 chicks each in Trial I which ended October 20, 1960 and Trial II which ended January 17, 1961. Thus a total of 4 pens and 560 chicks are involved. The same stock was entered in each trial.

** Experimental entries are not for sale commercially at the present time.

FOURTEENTH MAINE PRODUCTION AND BROILER TEST
MONMOUTH, MAINE
1959-60

ENTRANT	BREEDS	PERFORMANCE OF PARENT STOCK						Fertility	% Hatch
		Production		Hatching Eggs		Livability Hens			
		Eggs	%	Eggs	%	Hens	%		
Edgecomb's Hatchery	Vantress X Hubbard #39	8601	62.8	95.9	96	88.3		82.4	
Clements Chicks Inc.	White Mts. X Arbor Acres WR	7461	54.5	93.0	96	84.8		80.2	
Filch's Poultry Farms Inc.	Vantress X White Rocks	6554	47.8	92.8	92	76.8		72.6	
Cobb's Pedigreed Chicks Inc.	WR Strain Cross	6978	50.9	93.4	90	82.2		74.8	
Arbor Acres Farm Inc.	Vantress X Arbor Acres #5003	7104	51.9	94.1	98	62.9		57.9	
Arbor Acres Farm Inc.	Vantress X Arbor Acres Line 4	6591	48.1	92.5	100	81.3		73.5	
White's Farm & Hatchery	Vantress X Arbor Acres WR	7781	56.8	95.7	98	60.0		55.7	
Constable's Hatchery Inc.	Vantress X Arbor Acres WR	7472	54.5	93.3	98	68.8		63.7	
Penobscot Poultry Co., Inc.	M #1 X #11	7361	53.7	83.2	96	87.8		79.6	
Penobscot Poultry Co., Inc.	M #1 X #13	6888	50.3	84.1	94	74.4		70.0	
Hubbard Farms Inc.	White Mts. X Hubbard #39	7111	51.9	88.9	94	85.7		77.5	
Hubbard Farms Inc.	White Mts. X Hubbard #43	10131	73.9	95.7	100	93.7		89.4	
C M T Company	Peterson's X Arbor Acres WR	6855	50.0	92.7	98	86.3		80.4	
Nichols Inc.	Vantress X Nichols #108	7461	54.5	92.3	92	65.2		61.4	
Pilch's Poultry Farms, Inc.	Peterson's X White Rocks	6686	48.8	94.0	86	82.0		70.0	
Hillcrest Hatchery	Vantress X Cobb's WR	6804	49.7	92.2	100	65.4		60.0	
Coleman Research Farm	Nichols #909B X Nichols #108	7436	54.3	92.6	90	88.1		83.3	
Coleman Research Farm	Peterson's X Nichols #108	6872	50.2	94.1	94	86.1		84.6	
Coleman Research Farm	Ellis X Nichols #108	6857	50.1	89.1	96	83.5		78.5	
Chester D. Bacheller	White Mts. X Cobb's WR	6754	49.3	92.2	92	72.6		64.6	
AVERAGE		7288	53.2	92.1	95	78.8		73.0	

FOURTEENTH MAINE PRODUCTION AND BROILER TEST

PERFORMANCE OF PROGENY - SUMMARY OF THREE HATCHES

ENTRANT	No. Chicks at start			% Livability			Live Weight - Lbs. at 8 Weeks			Feed Conversion at 8 Weeks			Eviscerated Yield* C & P			Returns Over Feed Cost Per Chick Started	
	C	P	C	P	C	P	C	P	C	P	C & P	C	P	C	P		
Edgecomb's Hatchery	135	135	97.4	3.95	3.21	3.59	2.08	2.18	2.13	72.68	73.46					27.9¢	
Clements Chicks Inc.	135	135	98.2	3.95	3.14	3.55	2.13	2.25	2.18	74.08	74.90					27.6	
Pilch's Poultry Farms Inc.	135	135	99.3	4.08	3.23	3.66	2.12	2.17	2.14	74.02	75.16					29.4	
Cobb's Pedigreed Chicks Inc.	135	135	98.9	4.02	3.19	3.61	2.16	2.30	2.22	73.12	73.76					27.3	
Arbor Acres Farm Inc.	135	135	98.5	3.87	3.11	3.49	2.13	2.24	2.18	74.02	74.73					27.8	
Arbor Acres Farm Inc.	135	135	99.3	4.11	3.19	3.65	2.10	2.22	2.15	74.25	75.04					29.3	
White's Farm & Hatchery	135	135	96.7	3.95	3.19	3.58	2.11	2.20	2.15	74.24	75.17					27.8	
Constable's Hatchery Inc.	135	135	97.1	3.87	3.15	3.51	2.19	2.24	2.22	74.84	75.06					25.6	
Penobscot Poultry Co., Inc.	135	135	98.9	3.81	3.06	3.44	2.12	2.23	2.16	74.15	74.75					26.3	
Penobscot Poultry Co., Inc.	135	135	98.5	3.85	3.16	3.51	2.11	2.23	2.17	74.30	74.49					27.4	
Hubbard Farms Inc.	135	135	97.4	3.93	3.14	3.53	2.07	2.21	2.13	74.45	74.45					27.8	
Hubbard Farms Inc.	135	135	96.7	3.82	3.00	3.41	2.14	2.29	2.21	74.49	74.51					25.4	
C M T Company	135	135	99.6	3.93	3.13	3.53	2.10	2.23	2.16	75.23	75.84					28.1	
Nichols Inc.	135	135	97.8	4.05	3.23	3.65	2.12	2.23	2.16	73.80	75.18					27.3	
Pilch's Poultry Farms Inc.	135	135	98.5	4.14	3.39	3.77	2.08	2.17	2.12	73.52	75.45					30.1	
Hillcrest Hatchery	135	135	98.5	4.05	3.27	3.66	2.10	2.22	2.15	73.75	73.99					28.2	
Coleman Research Farm	135	135	98.2	4.09	3.39	3.75	2.16	2.24	2.20	73.65	73.97					28.1	
Coleman Research Farm	135	135	99.3	3.87	3.05	3.47	2.14	2.23	2.18	73.98	74.92					26.3	
Coleman Research Farm	135	135	98.5	4.02	3.20	3.61	2.14	2.25	2.19	73.11	73.79					27.5	
Chester D. Bacheller	135	135	96.7	4.11	3.32	3.72	2.16	2.24	2.20	74.52	75.39					27.2	
AVERAGE	135	135	98.2	3.97	3.19	3.58	2.12	2.23	2.17	74.01	74.70					27.6¢	

* % Live Weight at Dressing Plant

 Broiler Prices - Live Weight: Grade AA & A-\$18; B-\$16; C-\$14
 Feed Prices: \$4.61

SIXTH TEXAS RANDOM SAMPLE BROILER TEST
November 22, 1960 to January 23, 1961

ENTRANT	BREEDS	Six Week Data - By Pens				Nine Week Data - By Pens				Calculated to * Reach 3 Pounds			
		% Live- ability	Ave. Wt.	Entry Ave.	Lbs. Feed per Lb. Gain	Ave. Wt. Male	Ave. Wt. Female	Entry Ave.	Lbs. Feed per Lb. Gain	Days	Feed Per Lb.		
Brown's Ledbrest, Inc. Springdale, Ark.	Ledbrest X Cobb	91.0	2.17 2.24	2.21	2.1 1.8	4.21 4.60	3.39 3.58	3.84	2.33	53	2.30		
Brown's Ledbrest, Inc. Springdale, Ark.	Ledbrest X Thompson	97.0	2.17 2.20 2.17 2.29	2.21	2.0 2.0 2.0	4.20 4.47 4.44 4.26	3.29 3.49 3.18 3.37	3.81	2.41	54	2.28		
Cobb's, Inc. Concord, Mass.	Strain Cross WPR	95.3	2.11 2.21 2.25 2.23	2.20	2.1 2.0 2.0	4.35 4.40 4.44 4.33	3.45 3.40 3.45 3.43	3.89	2.36	53	2.26		
Hubbard Farms, Inc. Walpole, N. H.	Vantress X Hubbard	93.3	2.16 2.13 2.13 2.23	2.16	2.0 2.0 2.1 2.0	4.07 4.28 4.14 4.18	3.20 3.21 3.50 3.32	3.74	2.38	53	2.18		
Lambright Hatchery LaGrange, Ind.	Lambright's M-44	94.5	1.90 1.98 1.94 1.96	1.95	2.1 2.1 2.1 2.0	3.61 3.97 3.77 3.87	2.99 3.04 2.92 2.88	3.36	2.44	58	2.37		
Nichols Poultry Farm Glastonbury, Conn.	Vantress X Nichols #108	92.3	2.21 2.19 2.29 2.26	2.24	2.1 2.1 2.0 2.0	4.21 4.58 4.17 4.54	3.37 3.30 3.49 3.49	3.87	2.44	53	2.34		
Peterson, Inc. Decatur, Ark.	Peterson X Arbor Acres	96.0	2.04 1.91 2.02 2.06	2.01	2.0 2.1 2.0 2.0	3.84 3.88 3.98 4.24	3.02 3.02 3.19 3.10	3.54	2.38	56	2.29		
	AVVERAGE	94.2	2.14	2.14	2.03	4.26	3.27	3.71	2.40	53.7	2.23		

Chicks were sexed and 50 males and 50 females were put in each of four pens.

*The number of days and feed conversion per pound of gain to reach 3 pounds. This is a calculated figure.